

## 4 Pole Switching with the DILMP Contactors

### **xStart**

The complete range of contactors, efficient motor-starters and variable speed drives for the motor circuit. New simple to install solutions based on clever communication.

### **DIL contactors**

PKZ motor-protective circuit-breakers

MSC motor-starters

DS 4 softstarters

DF & DV Drives

Rapid Link



**MOELLER** 

We keep power under control.

## 4 pole DILMP contactors

Industry and trade expect clear progress in electronics so that processes can be more efficiently designed - from planning via engineering to mounting and installation. The 4 pole DILMP contactor fulfills these demands completely with its optimised dimensioning and innovations in termination and actuation.

Typical application areas of the DILMP contactor are:

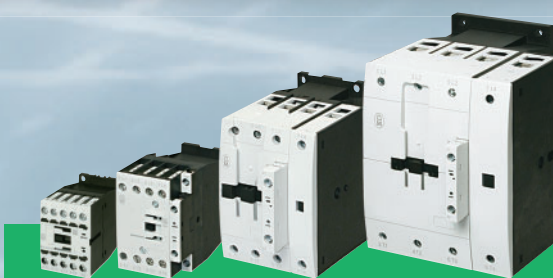
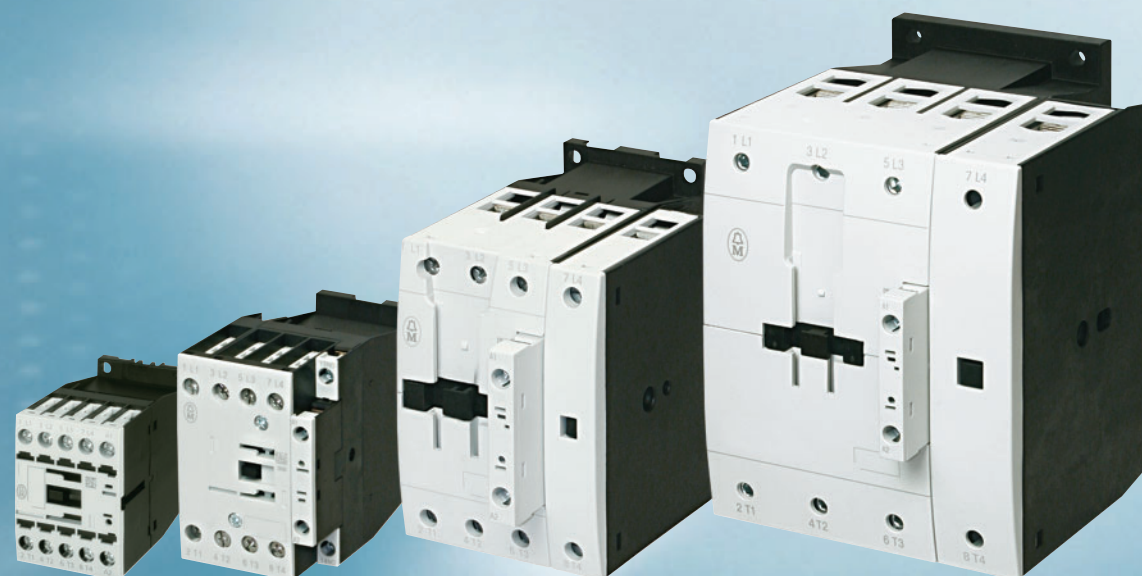
- Mains disconnection and mains changeover
- Switching of heating systems
- 4 pole load switching

### AC and DC contactor system xStart

4 pole DILMP contactor up to 200 A

- Identical frame sizes for AC and DC operated contactors simplify the engineering
- Minimised heat dissipation allows a higher packing density in the control panel
- Higher wiring safety due to double box terminals
- Less intermediate relays because contactors up to 45 A can be directly actuated from the PLC
- Simple engineering due to integrated suppressors in the DC operated contactors
- Two-way mechanical interlock can be mounted without extra distance between contactors
- Uniform accessories for 3 pole and 4 pole contactors

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DILMP 4 pole

Moeller NK2100-1171GB

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Rated operational current 50 – 60 Hz open

Conventional thermal current  
 $I_{th} = I_e$  AC-1

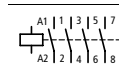
Contact sequence

Can be combined with auxiliary contact

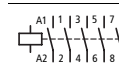
AC-1

|       |       |       |
|-------|-------|-------|
| 40 °C | 50 °C | 60 °C |
| A     | A     | A     |

Open  
 $I_{th} = I_e$   
A



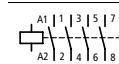
DILM32-XHI(C)...  
DILA-XHI(V)(C)...



DILM32-XHI(C)...  
DILA-XHI(V)(C)...



DILM150-XHI(A)(V)...  
or  
DILM1000-XHI11-SA<sup>1)</sup>  
or  
DILM1000-XHI(V)11-SI<sup>1)</sup>



DILM150-XHI(A)(V)...  
DILM1000-XHI(V)...<sup>1)</sup>

DILMP contactors

|  |     |     |     |     |  |  |
|--|-----|-----|-----|-----|--|--|
|  | 22  | 21  | 20  | 20  |  |  |
|  | 32  | 30  | 28  | 32  |  |  |
|  | 63  | 60  | 54  | 63  |  |  |
|  | 80  | 76  | 69  | 80  |  |  |
|  | 125 | 116 | 108 | 125 |  |  |
|  | 160 | 150 | 138 | 160 |  |  |
|  | 200 | 188 | 172 | 200 |  |  |

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DILMP 4 pole



| AC operation                   |                         | DC operation                |                         | Std. pack | Notes   |
|--------------------------------|-------------------------|-----------------------------|-------------------------|-----------|---|
| Part no.<br>Article no.        | Price<br>see price list | Part no.<br>Article no.     | Price<br>see price list |           |   |
| DILMP20(230V50HZ)<br>276970    |                         | DILMP20(24VDC)<br>276985    |                         | 1 off     | <p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>1 auxiliary contact modules → 4</li> <li>2 suppressor → 6</li> <li>further actuating voltages → 8</li> <li>Accessories → 7</li> </ul> <p>DC operated contactors have integral suppressors (DILMP20: varistor). Contactors DILMP125, DILMP160 and DILMP200 have an integrated suppressor.</p> <p><sup>1)</sup> DILM1000-XHI... can only be to DILMP... on the LHS</p> |
| DILMP32-10(230V50HZ)<br>109797 |                         | DILMP32-10(RDC24)<br>109811 |                         |           |   |
| DILMP45-10(230V50HZ)<br>109826 |                         | DILMP45-10(RDC24)<br>109840 |                         |           |   |
| DILMP63(230V50HZ)<br>109855    |                         | DILMP63(RDC24)<br>109869    |                         |           |   |
| DILMP80(230V50HZ)<br>109884    |                         | DILMP80(RDC24)<br>109898    |                         |           |   |
| DILMP125(RAC24)<br>109905      |                         | DILMP125(RDC24)<br>109910   |                         |           |   |
| DILMP160(RAC24)<br>109915      |                         | DILMP160(RDC24)<br>109920   |                         |           |   |
| DILMP200(RAC24)<br>109925      |                         | DILMP200(RDC24)<br>109930   |                         |           |   |

# Ordering


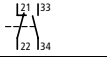
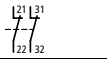

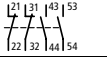
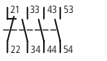

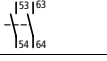
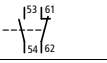
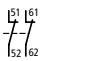
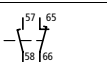


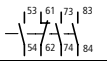
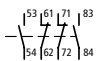
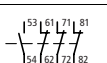
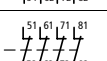
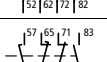
## Auxiliary contact modules

xStart

DILM, DILA






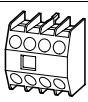











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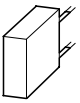

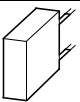

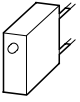
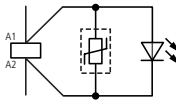
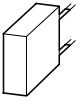

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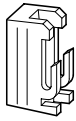
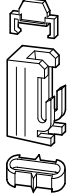

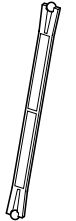


| Connection technique  |                 | Conventional thermal current<br>$I_{th} = I_e$<br>AC-1 at 60 °C | Contacts  | Contact sequence             | Can be combined with basic unit | Part no.<br>Article no.   | Price<br>see price list             | Std. pack              |       |
|---|-----------------|---|---|------------------------------|---------------------------------|---|-------------------------------------|------------------------|-------|
|   |                 | Open<br>$I_{th} = I_e$<br>A                                     | N/O = Normally open,<br>N/O <sub>E</sub> = Normally open (early make contact)<br>N/C = Normally closed<br>N/C <sub>L</sub> = Normally closed (late break contact) |                              |                                 |   |                                     |                        |       |
| <b>Auxiliary contact modules</b>  |                 |   |   |                              |                                 |   |                                     |                        |       |
| With positively driven contacts; except XHIV and XHICV                              |                 |   |   |                              |                                 |   |                                     |                        |       |
| Top mounting auxiliary contacts   |                 |   |   |                              |                                 |   |                                     |                        |       |
|    | Screw terminals | 2 pole  | 16  | 1 N/O                        | 1 N/C                           |    | DILMP20<br>DILMP32-10<br>DILMP45-10 | DILM32-XHI11<br>277376 | 5 off |
|   |                 |   | 16  | –                            | 2 N/C                           |    |                                     |                        |       |
|    | Screw terminals | 4 pole  | 16  | 2 N/O                        | 2 N/C                           |    | DILM32-XHI22<br>277377              |                        |       |
|   |                 |   | 16  | 3 N/O                        | 1 N/C                           |    |                                     | DILM32-XHI31<br>106112 |       |
|    | Screw terminals | 2 pole  | 16  | 2 N/O                        | –                               |    | DILMP20<br>DILMP32-10<br>DILMP45-10 | DILA-XHI20<br>276422   |       |
|   |                 |   | 16  | 1 N/O                        | 1 N/C                           |    |                                     | DILA-XHI11<br>276421   |       |
|   |                 |   | 16  | –                            | 2 N/C                           |    |                                     | DILA-XHI02<br>276420   |       |
|   |                 |   | 16  | 1 N/O <sub>E</sub>           | 1 N/C <sub>L</sub>              |    |                                     | DILA-XHIV11<br>276423  |       |
|  | Screw terminals | 4 pole  | 16  | 4 N/O                        | –                               |  | DILM32-XHI40<br>276428              |                        |       |
|   |                 |   | 16  | 3 N/O                        | 1 N/C                           |  |                                     | DILA-XHI31<br>276427   |       |
|   |                 |   | 16  | 2 N/O                        | 2 N/C                           |  |                                     | DILA-XHI22<br>276426   |       |
|   |                 |   | 16  | 1 N/O                        | 3 N/C                           |  |                                     | DILA-XHI13<br>276425   |       |
|   |                 |   | 16  | –                            | 4 N/C                           |  |                                     | DILA-XHI04<br>276424   |       |
|   |                 |   | 16  | 1 N/O,<br>1 N/O <sub>E</sub> | 1 N/C,<br>1 N/C <sub>L</sub>    |  |                                     | DILA-XHIV22<br>276429  |       |

**Notes**

- Interlocked opposing contacts, to IEC/EN 60947-5-1 Annex L, within the auxiliary contact modules (not N/O (early make) and N/C (late break) contacts) and for the built-in auxiliary contacts of the DILM7 – DILM32
- Auxiliary break contact can be used as mirror contact to IEC/EN 60947-4-1 Annex F (not N/C (late break) contact)

| Connection technique  | Conventional thermal current<br>$I_{th} = I_e$<br>AC-1<br>Open<br>$I_{th} = I_e$<br>A | Contacts | Contact sequence                        | Can be combined with basic unit | Part no.<br>Article no.      | Price<br>see price list   | Std. pack   |                              |       |
|---|---|----------|---|---------------------------------|------------------------------|---|---|------------------------------|-------|
| <b>Auxiliary contact modules</b>  |   |          |   |                                 |                              |   |   |                              |       |
| With positively driven contacts; except XHIV and XHICV                              |   |          |   |                                 |                              |   |   |                              |       |
|    | Screw terminals   | 2 pole   | 16                                      | 2 N/O                           | –                            |    | DILMP63<br>DILMP80<br>DILMP125<br>DILMP160<br>DILMP200  | DILM150-XHI20<br>277945      | 5 off |
|   |   |          | 16                                      | 1 N/O                           | 1 N/C                        |    |   | DILM150-XHI11<br>277946      |       |
|   |   |          | 16                                      | 1 N/O                           | 1 N/C                        |    |   | DILM150-XHIA11<br>283463     |       |
|   |   |          | 16                                      | –                               | 2 N/C                        |    |   | DILM150-XHI02<br>277947      |       |
|    | Screw terminals   | 4 pole   | 16                                      | 4 N/O                           | –                            |    | DILM150-XHI04<br>DILM150-XHI31<br>DILM150-XHI22<br>DILM150-XHIA22<br>DILM150-XHI13<br>DILM150-XHI04<br>DILM150-XHIV22 | DILM150-XHI40<br>277948      | 5 off |
|   |   |          | 16                                      | 3 N/O                           | 1 N/C                        |    |   | DILM150-XHI31<br>277949      |       |
|   |   |          | 16                                      | 2 N/O                           | 2 N/C                        |    |   | DILM150-XHI22<br>277950      |       |
|   |   |          | 16                                      | 2 N/O                           | 2 N/C                        |    |   | DILM150-XHIA22<br>283464     |       |
|   |   |          | 16                                      | 1 N/O                           | 3 N/C                        |   |   | DILM150-XHI13<br>277951      |       |
|   |   |          | 16                                      | –                               | 4 N/C                        |  |   | DILM150-XHI04<br>277952      |       |
|   |   |          | 16                                      | 1 N/O,<br>1 N/O <sub>E</sub>    | 1 N/C,<br>1 N/C <sub>L</sub> |  |   | DILM150-XHIV22<br>277953     |       |
|   |   |          | <b>Side mounting auxiliary contacts</b> |                                 |                              |   |   |                              |       |
|  | Screw terminals   | 2 pole   | 10                                      | 1 N/O                           | 1 N/C                        |  | DILMP63<br>DILMP80<br>DILMP125<br>DILMP160<br>DILMP200  | DILM1000-XHI11-SI<br>278425  | 1 off |
|   |   |          | 10                                      | 1 N/O <sub>E</sub>              | 1 N/C <sub>L</sub>           |  |   | DILM1000-XHIV11-SI<br>278426 |       |
|   |   |          | 10                                      | 1 N/O                           | 1 N/C                        |  |   | DILM1000-XHI11-SA<br>278427  |       |

|   | Voltage<br>$U_s$<br>V   | For use with             | Contact sequence  | Part no.<br>Article no.   | Price<br>see price list | Std. pack | Notes  |   |   |  |        |  |
|---|---|--------------------------|---|---|-------------------------|-----------|--|---|---|--|--------|--|
| <b>Suppressors</b>  |   |                          |   |   |                         |           |  |   |   |  |        |  |
| <b>RC suppressors</b>   |   |                          |   |   |                         |           |  |   |   |  |        |  |
|    | 24 – 48 AC  | DILMP20                  |  | DILM12-XSPR48<br>281199   |                         | 10 off    | For AC-operated contactors 50 – 60 Hz.<br>With DC operated contactors and with DILM115 and DILM150 or DILMP125 to DILMP 200 the suppressor is integrated.<br>Note drop-out delay |   |   |  |        |  |
|   | 110 – 240 AC  |                          |   | DILM12-XSPR240<br>281200  |                         |           |  |   |   |  |        |  |
|   | 240 – 500 AC  |                          |   | DILM12-XSPR500<br>281201  |                         |           |  |   |   |  |        |  |
|   | 24 – 48 AC  | DILMP32<br>DILMP45       |   | DILM32-XSPR48<br>281202   |                         |           |  |   |   |  |        |  |
|   | 110 – 240 AC  |                          |   | DILM32-XSPR240<br>281203  |                         |           |  |   |   |  |        |  |
|   | 240 – 500 AC  |                          |   | DILM32-XSPR500<br>281204  |                         |           |  |   |   |  |        |  |
|   | 24 – 48 AC  | DILMP63<br>DILMP80       |   | DILM95-XSPR48<br>281205   |                         |           |  |   |   |  |        |  |
|   | 110 – 240 AC  |                          |   | DILM95-XSPR240<br>281206  |                         |           |  |   |   |  |        |  |
|   | 240 – 500 AC  |                          |   | DILM95-XSPR500<br>281207  |                         |           |  |   |   |  |        |  |
| <b>Varistor suppressors</b>   |   |                          |   |   |                         |           |  |   |   |  |        |  |
|   | 24 – 48 AC  | DILMP20                  |  | DILM12-XSPV48<br>281208   |                         | 10 off    | For AC-operated contactors 50 – 60 Hz.<br>With DC operated contactors and with DILM115 and DILM150 or DILMP125 to DILMP 200 the suppressor is integrated.<br>Note drop-out delay |   |   |  |        |  |
|   | 48 – 130 AC   |                          |   | DILM12-XSPV130<br>281209  |                         |           |  |   |   |  |        |  |
|   | 130 – 240 AC  |                          |   | DILM12-XSPV240<br>281210  |                         |           |  |   |   |  |        |  |
|   | 240 – 500 AC  | DILM12-XSPV500<br>281211 |   |   |                         |           |  |   |   |  |        |  |
|   | 24 – 48 AC  | DILMP32<br>DILMP45       |   | DILM32-XSPV48<br>281212   |                         |           |  |   |   |  |        |  |
|   | 48 – 130 AC   |                          |   | DILM32-XSPV130<br>281213  |                         |           |  |   |   |  |        |  |
|   | 130 – 240 AC  |                          |   | DILM32-XSPV240<br>281214  |                         |           |  |   |   |  |        |  |
|   | 240 – 500 AC  | DILM32-XSPV500<br>281215 |   |   |                         |           |  |   |   |  |        |  |
|   | 24 – 48 AC  | DILMP63<br>DILMP80       |   | DILM95-XSPV48<br>281216   |                         |           |  |   |   |  |        |  |
|   | 48 – 130 AC   |                          |   | DILM95-XSPV130<br>281217  |                         |           |  |   |   |  |        |  |
|   | 130 – 240 AC  |                          |   | DILM95-XSPV240<br>281218  |                         |           |  |   |   |  |        |  |
|   | 240 – 500 AC  | DILM95-XSPV500<br>281219 |   |   |                         |           |  |   |   |  |        |  |
|   | <b>Varistor suppressors with integrated LED</b>                                     |                          |   |   |                         |           |  |   |   |  |        |  |
|   |  | 24 – 48 AC               |   | DILMP20   |                         |           |  |  | DILM12-XSPVL48<br>281220  |  | 10 off | For AC-operated contactors 50 – 60 Hz.<br>With DC operated contactors and with DILM115 and DILM150 or DILMP125 to DILMP 200 the suppressor is integrated.<br>Note drop-out delay |
|   |   | 130 – 240 AC             |   |   |                         |           |  |   | DILM12-XSPVL240<br>281221   |  |        |  |
| 24 – 48 AC  |   | DILMP32<br>DILMP45       | DILM32-XSPVL48<br>281222  |   |                         |           |  |   |   |  |        |  |
| 130 – 240 AC  |   |                          | DILM32-XSPVL240<br>281223   |   |                         |           |  |   |   |  |        |  |
| 24 – 48 AC  |   | DILMP63<br>DILMP80       | DILM95-XSPVL48<br>281224  |   |                         |           |  |   |   |  |        |  |
| 130 – 240 AC  |   |                          | DILM95-XSPVL240<br>281225   |   |                         |           |  |   |   |  |        |  |
| <b>Free-wheel diode suppressor</b>  |   |                          |   |   |                         |           |  |   |   |  |        |  |
|  |   | 12 – 250 DC              | DILMP20   |  | DILM12-XSPD<br>101672   |           | 10 off   |   | In addition to the built-in suppressor circuit for DC actuated contactors.<br>Prevents negative breaking voltage when contactors are used in combination with a safety PLC. |  |        |  |

|   | For use with                     | Part no.<br>Article no.        | Price<br>see price<br>list | Std. pack | Notes  |
|---|----------------------------------|--------------------------------|----------------------------|-----------|--|
| <b>Links</b>  |                                  |                                |                            |           |  |
|    | DILMP20 – DILMP80                | <b>DILM32-XVB</b><br>281227    |                            | 50 off    | For mechanically arranging contactors in combinations. Distance between contactors 0 mm  |
|    | DILMP125 – DILMP200              | <b>DILM150-XVB</b><br>281226   |                            | 10 off    |  |
|   |                                  |                                |                            |           |  |
| <b>Mechanical interlocks</b>  |                                  |                                |                            |           |  |
|    | DILMP20                          | <b>DILM12-XMV</b><br>281196    |                            | 1 off     | For two contactors with AC or DC operation arranged vertically or horizontally<br>Distance between contactors 0 mm, including contactor connector<br>Mechanical lifespan $2.5 \times 10^6$ operations.<br>Additional auxiliary contact module possible<br>→ page 4.<br>DILM150-XMV comes with mounting plate for contactors. |
|   | DILMP32 – DILMP45                | <b>DILM32-XMV</b><br>281197    |                            |           |  |
|   | DILMP63 – DILMP80                | <b>DILM65-XMV</b><br>281198    |                            |           |  |
|   | DILMP125 – DILMP200              | <b>DILM150-XMV</b><br>240081   |                            |           |  |
| <b>Set of spare parts for mechanical interlock</b>                                  |                                  |                                |                            |           |  |
|   | DILMP125 – DILMP200              | <b>DILM150-XMVE</b><br>107020  |                            | 1 off     | Content:<br>ball for mechanical interlock incl. contactor connector.   |
| <b>IP2X shrouding kit</b>   |                                  |                                |                            |           |  |
|  | DILMP63<br>DILMP80               | <b>DILM65-XIP2X</b><br>106491  |                            | 8 off     | 2 shrouds are necessary per phase<br>The shrouding kit consists of 8 shrouds   |
|  | DILMP125<br>DILMP160<br>DILMP200 | <b>DILM150-XIP2X</b><br>106492 |                            | 8 off     |  |

# Ordering Actuating voltages

xStart

DILMP20 ... DILMP200

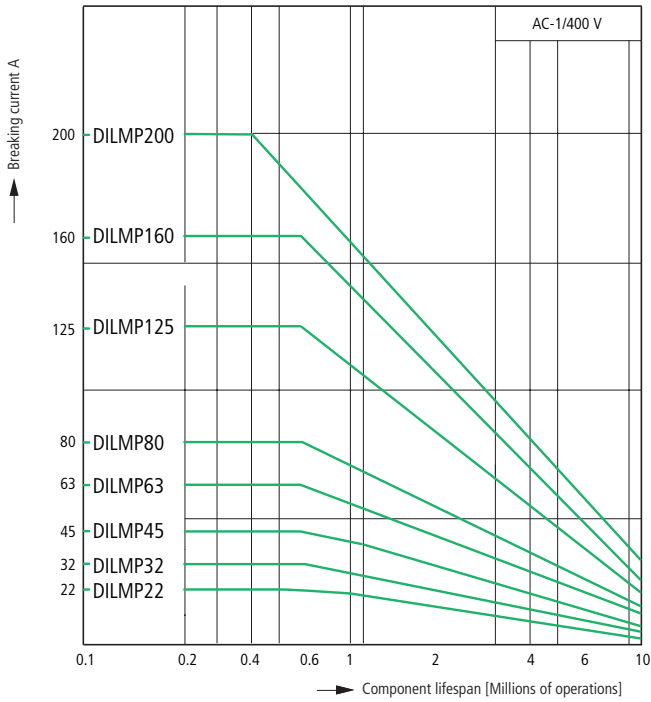
Moeller NK2100-1171GB

<http://catalog.moeller.net>

| AC                                  | DILMP20<br>(...)          | DILMP32-10<br>(...)       | DILMP45-10<br>(...)       | DILMP63<br>(...)          | DILMP80<br>(...)          | DILMP125<br>(...)         | DILMP160<br>(...)         | DILMP200<br>(...)         |
|-------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                     | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> |
| <b>Standard voltages</b>            | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   |
| 240V 50Hz                           | –                         | 109798                    | 109827                    | 109856                    | 109885                    | –                         | –                         | –                         |
| 110V 50Hz<br>120V 60Hz              | 276967                    | 109790                    | 109819                    | 109848                    | 109877                    | –                         | –                         | –                         |
| 230V 50Hz<br>240V 60Hz              | 276970                    | 109797                    | 109826                    | 109855                    | 109884                    | –                         | –                         | –                         |
| 24V 50/60Hz                         | 276974                    | 109799                    | 109828                    | 109857                    | 109886                    | –                         | –                         | –                         |
| 230 V 50/60 Hz                      | 276978                    | 109796                    | 109825                    | 109883                    | 109883                    | –                         | –                         | –                         |
| AC                                  | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> |
| <b>Standard voltages</b>            | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   |
| RAC 24 <sup>4)</sup>                | –                         | –                         | –                         | –                         | –                         | 109904                    | 109914                    | 109924                    |
| RAC 120 <sup>5)</sup>               | –                         | –                         | –                         | –                         | –                         | 109903                    | 109913                    | 109923                    |
| RAC 240 <sup>6)</sup>               | –                         | –                         | –                         | –                         | –                         | 109905                    | 109915                    | 109925                    |
| AC                                  | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> |
| Non-standard voltages <sup>2)</sup> | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   |
| ...V 50Hz (12 – 600V) <sup>3)</sup> | 276982                    | 109787                    | 109816                    | 109845                    | 109874                    | –                         | –                         | –                         |
| ...V 60Hz (12 – 600V) <sup>3)</sup> | 276983                    | 109788                    | 109817                    | 109846                    | 109875                    | –                         | –                         | –                         |
| DC                                  | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> |
| <b>Standard voltages</b>            | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   |
| 24V DC                              | 276985                    | –                         | –                         | –                         | –                         | –                         | –                         | –                         |
| RDC 24 <sup>7)</sup>                | –                         | 109811                    | 109840                    | 109869                    | 109898                    | 109910                    | 109920                    | 109930                    |
| DC                                  | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> | Article no. <sup>1)</sup> |
| Non-standard voltages <sup>2)</sup> | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   | Price<br>see price list   |
| ...V DC (12 – 250V) <sup>3)</sup>   | 276990                    | –                         | –                         | –                         | –                         | –                         | –                         | –                         |

**Notes**<sup>1)</sup> The article number is a combination of part no. and operating voltage<sup>2)</sup> For non-standard voltages, state the actuating voltage selected from the range (...–...V) shown.<sup>3)</sup> Minimum order quantity: 10 off<sup>4)</sup> 24 V 50/60 Hz<sup>5)</sup> 100 – 120 V 50/60 Hz<sup>6)</sup> 190 – 240 V 50/60 Hz<sup>7)</sup> 24 – 27 V DC

### Switching conditions for 4 pole, non-motor loads



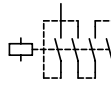
- Operating characteristics
  - Non inductive and slightly inductive loads
- Electrical characteristics:
  - Switch on: 1 × Rated current
  - Switch off: 1 × Rated current
- Utilization category
  - 100 % AC-1
- Typical applications:
  - Electric heat

### Switching of DC currents

----- when necessary  
cable to be supplied by  
customer

**DILMP20 ... DILMP200**  
> 60 V DC

1 pole



2 pole

